

Claims

[c1] What is claimed is:

1.A projection lens system of a rear-projection type television, comprising:

a screen having an image projection surface that is normal to a horizontal reference line;

a projection lens component having a center optical axis that is obliquely offset with respect to said horizontal reference line, wherein said projection lens component is disposed in front of said screen;

a first mirror disposed between said screen and said projection lens component; and

a second mirror disposed said first mirror and said screen for reflectively projecting an image reflected from said first mirror onto said screen, wherein said second mirror is not in parallel with said first mirror.

[c2] 2.The projection lens system of a rear-projection type television according to claim 1 wherein said projection lens component is part of an optical engine that comprises at least one LCoS panel, wherein said LCoS panel is normal to said horizontal reference line but is offset with respect to an center optical axis of said optical en-

gine.

- [c3] 3.The projection lens system of a rear-projection type television according to claim 2 wherein a center light beam emanated from a center of the projection lens component propagates along said center optical axis of said projection lens, and wherein said center light beam is first reflected by said first mirror, then reflected by said second mirror, and is eventually projected onto said screen at an incident angle that is smaller than 90° .
- [c4] 4.The projection lens system of a rear-projection type television according to claim 1 wherein said second mirror is disposed at an acute angle Θ_1 with respect to said image projection surface, said first mirror is disposed at an acute angle Θ_2 with respect to said image projection surface, and wherein angle Θ_1 ranges between 15° and 40° , inclusive.
- [c5] 5.The projection lens system of a rear-projection type television according to claim 4 wherein said angle Θ_1 is smaller than said angle Θ_2 .